

Storen Weed Control and Crop Safety

Arlington, WI 2024

Trial Information

Trial Sponsor(s): Syngenta

Objective: Evaluate the residual weed control and crop safety of Storen compared to competitor corn herbicides

Crop: Corn

Hybrid: NK9777-DV-EZ1

Weed species (pressure): common ragweed (high)
giant foxtail (high-very high)

Herbicide Application(s): PRE – 5/1
POST – 5/31 (V3 corn)

For the full report see trial #24-ARL-CN09 in the [2024 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

syngenta

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Trt #	Herbicide (rate acre ⁻¹)	Common Ragweed (%)				Giant Foxtail (%)				Yield ^b bu acre ⁻¹	
		5/30	6/14	6/28	7/29	5/30	6/14	6/28	7/29		
1	Untreated Check	0	0	0	0	0	0	0	0	71 -	
One-Pass – PRE (5/1)											
2	Storen (2.1 qt)	96	95	90	90	98	98	91	88	213 abc	
3	Storen (2.4 qt)	96	96	91	92	99	98	92	89	214 abc	
4	Acuron Flexi (2.25 qt)	95	88	82	85	98	96	83	78	210 abc	
5	Resicore (2.5 qt)	97	90	80	83	98	94	78	71	205 bc	
6	Resicore (3 qt)	98	93	86	83	99	96	82	73	213 abc	
7	Trivolt SC (17.5 fl oz)	96	97	89	89	99	98	90	82	223 ab	
8	Trivolt SC (20 fl oz)	97	98	93	93	99	99	91	86	217 abc	
9	Maverick (24 fl oz)	98	87	79	78	83	85	67	56	195 c	
10	Maverick (32 fl oz)	98	89	78	79	90	91	76	70	201 bc	
15	Storen (2.4 qt) + Princep 4L (1 qt)	98	99	99	99	99	99	96	94	232 a	
One-Pass – POST (5/31)											
14	Storen (2.1 qt) + Clarity (8 oz) + Roundup PM3 (24 oz) + AMS ^c	0	100	100	100	0	98	97	92	195 c	
Two-Pass – PRE (5/1) <i>fb</i> POST (5/31)											
11	Storen (1.05 qt) <i>fb</i> Storen (1.05 qt) + Clarity (8 oz) + RU PM3 (24 fl oz) + AMS ^c	91	100	100	100	90	100	99	99	221 ab	
12	Storen (1.2 qt) <i>fb</i> Storen (1.2 qt) + Clarity (8 oz) Roundup PM3 (24 fl oz) + AMS ^c	90	100	98	100	94	100	100	99	214 abc	
13	Storen (1.7 qt) <i>fb</i> Halex GT (3.6 pt) + Clarity (8 oz) + NIS (0.25%) + AMS ^c	94	100	100	100	97	100	99	99	213 abc	
		LSD ($\alpha=0.10$)	3	3	5	6	2	2	5	7	13
		p value	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<0.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different. The untreated check was excluded from the analysis.

^cAMS liquid applied at 2.5% v/v

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Plot pictures taken on 5/30

29 days after the PRE application
The day before the POST application

The numbers in the upper right-hand corner are the average %
giant foxtail and common ragweed control of 4 replications

29 days after PRE (5/30)
Untreated Check

0%



29 days after PRE (5/30)
PRE: 2.1 qt Storen

C. Ragweed = 96%
G. Foxtail = 98%



29 days after PRE (5/30)
PRE: 2.4 qt Storen

C. Ragweed = 96%
G. Foxtail = 99%



29 days after PRE (5/30)
PRE: 2.25 qt Acuron Flexi

C. Ragweed = 95%
G. Foxtail = 98%



29 days after PRE (5/30)
PRE: 2.5 qt Resicore

C. Ragweed = 97%
G. Foxtail = 98%



29 days after PRE (5/30)
PRE: 3 qt Resicore

C. Ragweed = 98%
G. Foxtail = 99%



29 days after PRE (5/30)

PRE: 17.5 oz TriVolt

C. Ragweed = 96%

G. Foxtail = 99%



29 days after PRE (5/30)

PRE: 20 oz TriVolt

C. Ragweed = 97%

G. Foxtail = 99%



29 days after PRE (5/30)
PRE: 24 oz Maverick

C. Ragweed = 98%
G. Foxtail = 83%



29 days after PRE (5/30)
PRE: 32 oz Maverick

C. Ragweed = 98%
G. Foxtail = 90%



29 days after PRE (5/30)

PRE: 2.4 qt Storen + 1 qt Princep 4L

C. Ragweed = 98%

G. Foxtail = 99%



29 days after PRE (5/30)

PRE: 1.05 qt Storen

C. Ragweed = 91%

G. Foxtail = 90%



29 days after PRE (5/30)
PRE: 1.2 qt Storen

C. Ragweed = 90%
G. Foxtail = 94%



29 days after PRE (5/30)
PRE: 1.7 qt Storen

C. Ragweed = 94%
G. Foxtail = 97%



Storen Weed Control and Crop Safety

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Plot pictures taken on 6/14

44 days after the PRE application
14 days after the POST application

The numbers in the upper right-hand corner are the average %
giant foxtail and common ragweed control of 4 replications

44 days after PRE (6/14)

0%

Untreated Check



44 days after PRE (6/14)
PRE: 2.1 qt Storen

C. Ragweed = 95%
G. Foxtail = 98%



44 days after PRE (6/14)
PRE: 2.4 qt Storen

C. Ragweed = 96%
G. Foxtail = 98%



44 days after PRE (6/14)
PRE: 2.25 qt Acuron Flexi

C. Ragweed = 88%
G. Foxtail = 96%



44 days after PRE (6/14)
PRE: 2.5 qt Resicore

C. Ragweed = 90%
G. Foxtail = 94%



44 days after PRE (6/14)
PRE: 3 qt Resicore

C. Ragweed = 93%
G. Foxtail = 96%



44 days after PRE (6/14)

PRE: 17.5 oz TriVolt

C. Ragweed = 97%

G. Foxtail = 98%



44 days after PRE (6/14)

PRE: 20 oz TriVolt

C. Ragweed = 98%

G. Foxtail = 99%



44 days after PRE (6/14)

PRE: 24 oz Maverick

C. Ragweed = 87%

G. Foxtail = 85%



44 days after PRE (6/14)

PRE: 32 oz Maverick

C. Ragweed = 89%

G. Foxtail = 91%



44 days after PRE (6/14)

PRE: 2.4 qt Storen + 1 qt Princep 4L

C. Ragweed = 99%

G. Foxtail = 99%



14 days after POST (6/14)

C. Ragweed = 100%

POST: 2.1 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS G. Foxtail = 98%



14 days after POST (6/14)

C. Ragweed = 100%

PRE: 1.05 qt Storen *fb*

G. Foxtail = 100%

POST: 1.05 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS



14 days after POST (6/14)

C. Ragweed = 100%

PRE: 1.2 qt Storen *fb*

G. Foxtail = 100%

POST: 1.2 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS



14 days after POST (6/14)

C. Ragweed = 100%

PRE: 1.7 qt Storen *fb*

G. Foxtail = 100%

POST: 3.6 pt Halex GT + 8 oz Clarity + NIS + AMS



Storen Weed Control and Crop Safety

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Plot pictures taken on 6/28

58 days after the PRE application
28 days after the POST application

The numbers in the upper right-hand corner are the average %
giant foxtail and common ragweed control of 4 replications

58 days after PRE (6/28)

Untreated Check

0%



58 days after PRE (6/28)

PRE: 2.1 qt Storen

C. Ragweed = 90%

G. Foxtail = 91%



58 days after PRE (6/28)

PRE: 2.4 qt Storen

C. Ragweed = 91%

G. Foxtail = 92%



58 days after PRE (6/28)
PRE: 2.25 qt Acuron Flexi

C. Ragweed = 82%
G. Foxtail = 83%



58 days after PRE (6/28)

PRE: 2.5 qt Resicore

C. Ragweed = 80%

G. Foxtail = 78%



58 days after PRE (6/28)

PRE: 3 qt Resicore

C. Ragweed = 86%

G. Foxtail = 82%



58 days after PRE (6/28)

PRE: 17.5 oz TriVolt

C. Ragweed = 89%

G. Foxtail = 90%



58 days after PRE (6/28)

PRE: 20 oz TriVolt

C. Ragweed = 93%

G. Foxtail = 91%



58 days after PRE (6/28)

PRE: 24 oz Maverick

C. Ragweed = 79%

G. Foxtail = 67%



58 days after PRE (6/28)

PRE: 32 oz Maverick

C. Ragweed = 78%

G. Foxtail = 76%



58 days after PRE (6/28)

PRE: 2.4 qt Storen + 1 qt Princep 4L

C. Ragweed = 99%

G. Foxtail = 96%



28 days after POST (6/28)

C. Ragweed = 100%

POST: 2.1 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS **G. Foxtail = 97%**



28 days after POST (6/28)

C. Ragweed = 100%

PRE: 1.05 qt Storen *fb*

G. Foxtail = 99%

POST: 1.05 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS



28 days after POST (6/28)

PRE: 1.2 qt Storen *fb*

POST: 1.2 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS

C. Ragweed = 98%
G. Foxtail = 100%



28 days after POST (6/28)

PRE: 1.7 qt Storen fb

POST: 3.6 pt Halex GT + 8 oz Clarity + NIS + AMS

C. Ragweed = 100%

G. Foxtail = 99%

